IN THE CLAIMS:

The following is a complete listing of the claims, and replaces all earlier listings and all earlier versions.

1. (Currently Amended) A radiation imaging system comprising:

a radiation image detection panel having means for converting radiation into electrical signals, disposed two-dimensionally in a radiation image detection area;

an outer enclosure which holds therein the radiation image detection panel[[,]];

a cushioning material; and

an elastic support ~~means comprising an elastic body, and a cushioning material provided between the radiation image detection panel on a radiation incident side and the outer enclosure~~ member,

wherein the radiation image detection panel is elastically supported by the elastic support member toward the outer enclosure, and the cushioning material is provided between the radiation image detection panel on a radiation-incident side and the outer enclosure,

wherein the cushioning material covers the radiation image detection area, and

wherein the elastic support ~~means pressurizes~~ member elastically supports the radiation image detection panel ~~toward the outer enclosure~~ from the side opposite to the radiation-incident side of the radiation image detection panel.

2. (Previously Presented) The radiation imaging system according to claim 1, further comprising an electric-circuit board.

3. (Original) The radiation imaging system according to claim 2, wherein the electric-circuit board comprises a flexible circuit board.

4. (Previously Presented) The radiation imaging system according to claim 2, further comprising a support plate which supports the radiation image detection panel, the electric-circuit board being provided integrally with the radiation image detection panel.

5. (Original) The radiation imaging system according to claim 1, wherein the elastic support means comprises a compression coiled spring, a leaf spring or a rubbery member.

6. (Original) The radiation imaging system according to claim 1, wherein the elastic support means comprises a spring member having a non-linear spring constant.

7. (Original) The radiation imaging system according to claim 6, wherein the spring member comprises an inconstant-pitch compression coiled spring.

8. (Original) The radiation imaging system according to claim 6, wherein the spring member comprises a conical compression coiled spring.

9. (Cancelled).

10. (Previously Presented) The radiation imaging system according to claim 1, wherein the cushioning material comprises a radiation-transmissive member.

11. (Previously Presented) The radiation imaging system according to claim 4, further comprising a stopper which is arranged to restrict the range in which the support plate is movable downward.

12. - 20. (Cancelled).

21. (New) A radiation imaging system according to claim 1, wherein the radiation image detection panel comprises a fluorescent material and photoelectric conversion elements.

22. (New) A radiation imaging system comprising:

a radiation image detection panel having radiation detectors for converting radiation into electrical signals, disposed two-dimensionally in a radiation image detection area;

an outer enclosure which holds therein the radiation image detection panel; and

a cushioning material provided between the radiation image detection panel on a radiation-incident side and the outer enclosure,

wherein the cushioning material covers the radiation image detection area.

23. (New) The radiation imaging system according to claim 22, wherein the radiation image detection panel comprises a fluorescent material and photoelectric conversion elements.